

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 July 2006 (13.07.2006)

PCT

(10) International Publication Number
WO 2006/072947 A2

(51) International Patent Classification: Not classified

(21) International Application Number: PCT/IL.2006/000015

(22) International Filing Date: 4 January 2006 (04.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/641,081 4 January 2005 (04.01.2005) US
60/655,842 29 March 2005 (29.03.2005) US

(71) Applicant (for all designated States except US): DUNE MEDICAL DEVICES LTD. [IL/IL]; 20 Alon HaTavor Street, Industry Park, 38 900 Caesaria (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): HASHIMSHONY, Dan [IL/IL]; Simtat Halrit, 37808 Givat Ada (IL).

(74) Agent: G.E. EHRLICH (1995) LTD.; 11 Menachem Begin Street, 52521 Ramat Gan (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2006/072947 A2

(54) Title: ENDOSCOPIC SYSTEM FOR IN-VIVO PROCEDURES

(57) Abstract: An endoscopic system for in-vivo tissue characterization, using a nonirradiative electromagnetic sensor, is described. The endoscopic system is further configured to employ several follow-up procedures, for example, biopsy sampling, localized surgery, dispensing a medicament, and the like, so that on the whole, the endoscopic system provides for the early detection of cancerous and pre-cancerous tissue, in vivo, and for the application of immediate follow-up procedures to any such tissue.